

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Which of the following is NOT true regarding optical sensors? 1) _____
 - A) Optical sensors used as speed sensors only have four windows
 - B) Optical sensors use LEDs and a photo transistor
 - C) Optical sensors generate a digital signal
 - D) All of these are true statements

- 2) Which sensors do most vehicles use if equipped with electronic suspension? 2) _____
 - A) Height sensors
 - B) Steering wheel position sensors
 - C) Lateral accelerometer sensors
 - D) All of the above

- 3) What type signal is produced by a potentiometer? 3) _____
 - A) Analog
 - B) Digital
 - C) Pulse width modulated
 - D) None of these

- 4) What type of sensor is used as a height sensor on vehicles equipped with an electronically controlled suspension? 4) _____
 - A) Hall-effect
 - B) Photo cell
 - C) Potentiometer
 - D) All of the above

- 5) What type of actuator is used on electronically controlled suspensions? 5) _____
 - A) Solenoid
 - B) Electric motor
 - C) Either A or B
 - D) Neither A nor B

- 6) A vehicle height sensor mounts to the body of the vehicle and may be connected to the _____ 6) _____
by a link.
 - A) Frame
 - B) Upper control arm
 - C) Lower control arm
 - D) None of these

- 7) A lateral acceleration sensor is used to provide the suspension control module with feedback 7) _____
regarding _____ force.
 - A) Cornering
 - B) Acceleration
 - C) Braking
 - D) All of the above

8) A steering wheel position sensor is being discussed. Technician A says that the sensor is used to determine the direction of the steering wheel. Technician B says that the sensor detects how fast the steering wheel is turned. Which technician is correct? 8) _____

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

9) Technician A says that a potentiometer returns a digital signal to the ECM. Technician B says that a potentiometer generally has a two terminal harness connected to it. Which technician is correct? 9) _____

- A) Technician A only
- B) Technician B only
- C) Both technicians
- D) Neither technician

10) Which of the following is NOT considered an input for the ECM? 10) _____

- A) Electric motor
- B) Sensor
- C) Switch
- D) Photocell

Answer Key

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1) A

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2) D

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3) A

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4) D

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5) C

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6) C

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7) A

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8) C

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9) D

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10) A

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